

**From:** Zell, Christopher  
**To:** [Weiss, Leanne \(ECY\)](#); [Dustin Bilhimer](#); [akol461@ecy.wa.gov](mailto:akol461@ecy.wa.gov)  
**Cc:** [Mann, Laurie](#)  
**Subject:** RE: budd inlet references  
**Date:** Friday, December 30, 2016 8:42:00 AM

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Good Morning and Happy Friday ☺

I had the good fortune of speaking with Dr. Labiosa yesterday regarding HABS issues that relate to aesthetic value and shellfish harvest uses. She kindly shared a few additional links that may be helpful – in the event you have not already reviewed them. Also – she offered that Dr. Brown (lead author of the Yaquina study) is located in Newport, OR and may be available to provide more in-depth guidance should it be of value to the team.

#### *Links*

Biotoxin and shellfish harvest status for Budd Inlet can be viewed here:

<https://fortress.wa.gov/doh/eh/maps/biotoxin/biotoxin.html>. Is it common that Budd Inlet is closed for shellfish harvest? Jerry Borchert is a good contact at DOH for HABS issues.

Description of the HAB events database:

[https://www.nwfsc.noaa.gov/hab/research/nwfsc\\_research/info\\_data/index.cfm](https://www.nwfsc.noaa.gov/hab/research/nwfsc_research/info_data/index.cfm)

SoundToxins Program – looks to be a few sampling sites located in Budd Inlet. Perhaps some data to inform interesting statistical and/or mechanistic modeling activities:

[http://www.arcgis.com/home/webmap/viewer.html?](http://www.arcgis.com/home/webmap/viewer.html?webmap=6d9d2bbee512467aa04b459ddb796a4b&extent=-124.7078,46.8275,-121.0878,48.9939)

[webmap=6d9d2bbee512467aa04b459ddb796a4b&extent=-124.7078,46.8275,-121.0878,48.9939](http://www.arcgis.com/home/webmap/viewer.html?webmap=6d9d2bbee512467aa04b459ddb796a4b&extent=-124.7078,46.8275,-121.0878,48.9939)

Speaking of which, I am wondering what capacities the Budd Inlet model has in simulating HABS?

More goodies to come as HQ folks return from holiday.

Best,

Chris

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**From:** Zell, Christopher  
**Sent:** Thursday, December 29, 2016 12:33 PM  
**To:** Mann, Laurie <[mann.laurie@epa.gov](mailto:mann.laurie@epa.gov)>; [akol461@ecy.wa.gov](mailto:akol461@ecy.wa.gov); Dustin Bilhimer <[dbil461@ecy.wa.gov](mailto:dbil461@ecy.wa.gov)>; Weiss, Leanne (ECY) <[lewe461@ECY.WA.GOV](mailto:lewe461@ECY.WA.GOV)>  
**Subject:** RE: budd inlet references

In addition to Laurie's references (thank you), please see the ORD publication regarding nutrient criteria for PNW estuaries:

**"AN APPROACH TO DEVELOPING NUTRIENT CRITERIA FOR PACIFIC NORTHWEST ESTUARIES: A CASE STUDY OF YAQUINA ESTUARY, OREGON"**

[https://cfpub.epa.gov/si/si\\_public\\_record\\_report.cfm?dirEntryId=168443](https://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=168443)

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**From:** Mann, Laurie

**Sent:** Tuesday, December 20, 2016 4:55 PM

**To:** Zell, Christopher <[zell.christopher@epa.gov](mailto:zell.christopher@epa.gov)>; [akol461@ecy.wa.gov](mailto:akol461@ecy.wa.gov); Dustin Bilhimer <[dbil461@ecy.wa.gov](mailto:dbil461@ecy.wa.gov)>; Weiss, Leanne (ECY) <[lewe461@ECY.WA.GOV](mailto:lewe461@ECY.WA.GOV)>

**Subject:** budd inlet references

Here are 3 references re: our conversation today.

1. Ambient Water Quality Criteria for DO, clarity & chlorophyll in Chesapeake Bay:

[http://www.chesapeakebay.net/content/publications/cbp\\_13142.pdf](http://www.chesapeakebay.net/content/publications/cbp_13142.pdf)

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[Ambient Water Quality Criteria for Dissolved Oxygen, Water ...](#)

[www.chesapeakebay.net](http://www.chesapeakebay.net)

Ambient Water Quality Criteria for Dissolved Oxygen, Water Clarity and Chlorophyll a for the Chesapeake Bay and Its Tidal Tributaries April 2003

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2. Oregon HAB article

<http://www.deq.state.or.us/wq/algae/docs/HABstrategy.pdf>

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[Oregon DEQ Harmful Algal Bloom Strategy - deq.state.or.us](#)

[www.deq.state.or.us](http://www.deq.state.or.us)

Working Draft: Do not cite or release Oregon DEQ Harmful Algal . Bloom (HAB) Strategy . June 2011 . Last Updated: 02/22/2011 By: Andy Schaedel DEQ 03-??-###

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3. Expert Query link for TMDLs in EPA's national database. This link is a bit geeky and not very user friendly - - hope it works for you!

<https://iaspub.epa.gov/apex/waters/f?p=ASKWATERS:EXPERT:0>

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[Expert Query | US EPA](#)

[iaspub.epa.gov](http://iaspub.epa.gov)

Designated Use Look-up Table: In the electronic data submission, States are required to identify the designated uses that apply to each assessment unit, such as ...

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